



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1632

Applicant: Yoshihiro Kawaoka et al.

Title: METHODS TO IDENTIFY MUTANT CELLS WITH ALTERED SIALIC ACID

Docket No.: 800.029US1
Filed: February 22, 2002
Examiner: Unknown

Serial No.: 10/081,170
Due Date: N/A
Group Art Unit: 1632

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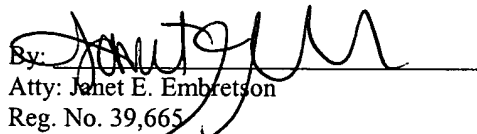
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We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Information Disclosure Statement (1 pg.), Form 1449 (1 pg.), and copies of 9 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938, Minneapolis, MN 55402 (612-373-6900)

By: 
Atty: Janet E. Embretson
Reg. No. 39,665

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SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. Box 2938, Minneapolis, MN 55402 (612-373-6900)
(GENERAL)



10/081,170

PATENT

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Applicant: Yoshihiro Kawaoka et al. Examiner: Unknown
Serial No.: 10/081,170 Group Art Unit: 1632
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Title: METHODS TO IDENTIFY MUTANT CELLS WITH ALTERED SIALIC ACID

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

YOSHIHIRO KAWAOKA ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
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Date June 4, 2003

By [Signature]
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Reg. No. 39,665

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Name Gulim Abilova

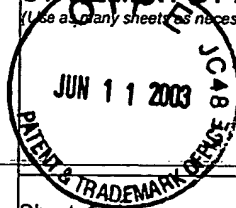
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/081,170
Filing Date	February 22, 2002
First Named Inventor	Kawaoka, Yoshihiro
Group Art Unit	1632
Examiner Name	Unknown

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Sheet 1 of 1

Attorney Docket No: 800.029US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HUGHES, M. T., et al., "Adaptation of Influenza A Viruses to Cells Expressing Low Levels of Sialic Acid Leads to Loss of Neuraminidase Activity", <u>Journal of Virology</u> , 75, (Apr., 2001), 3766-3770	
		HUGHES, M. T., et al., "Influenza A Viruses Lacking Sialidase Activity Can Undergo Multiple Cycles of Replication in Cell Culture, Eggs, or Mice", <u>Journal of Virology</u> , 74, (June, 2000), 5206-5212	
		LIU, CHONGGUANG, et al., "Influenza type A virus neuraminidase does not play a role in viral entry, replication, assembly, or budding.", <u>Journal of Virology</u> , 69(2), (February, 1995), 1099-106	
		LIU, CHONGGUANG, et al., "Selection and characterization of a neuraminidase-minus mutant of influenza virus and its rescue by cloned neuraminidase genes.", <u>Virology</u> , 194(1), (1993), 403-407	
		MASUDA, H., et al., "Substitution of Amino Acid Residue in Influenza A Virus Hemagglutinin Affects Recognition of Sialyl-Oligosaccharides Containing N-Glycolylneuraminic Acid", <u>FEBS Letters</u> , 464, (1999), 71-74	
		NEUMANN, G., et al., "Generation of Influenza A Viruses Entirely from Cloned cDNAs", <u>Proc. Natl. Acad. Sci. USA</u> , 96, (Aug., 1999), 9345-9350	
		RAY, MANAS K., et al., "A novel glycosylation phenotype expressed by Lec23, a Chinese hamster ovary mutant deficient in alpha-glucosidase I.", <u>Journal of Biological Chemistry</u> , 266(34), (December, 1991), 22818-22825	
		SCHULTZ-CHERRY, S., et al., "Influenza Virus NS1 Protein Induces Apoptosis in Cultured Cells", <u>Journal of Virology</u> , 75, (Sep., 2001), 7875-7881	
		YANG, PING, et al., "Hemagglutinin specificity and neuraminidase coding capacity of neuraminidase-deficient influenza viruses.", <u>Virology</u> , 229(1), (1997), 155-165	

BEST AVAILABLE COPY**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached